

FIG. 1

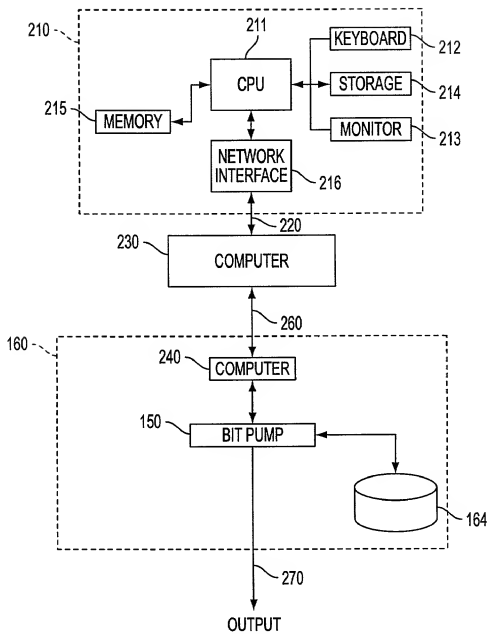
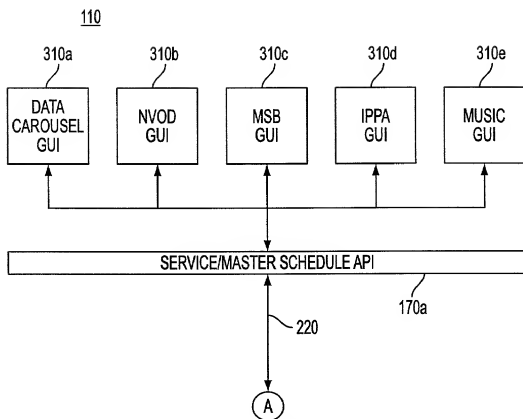


FIG. 2



TO MASTER SCHEDULER

FIG. 3A

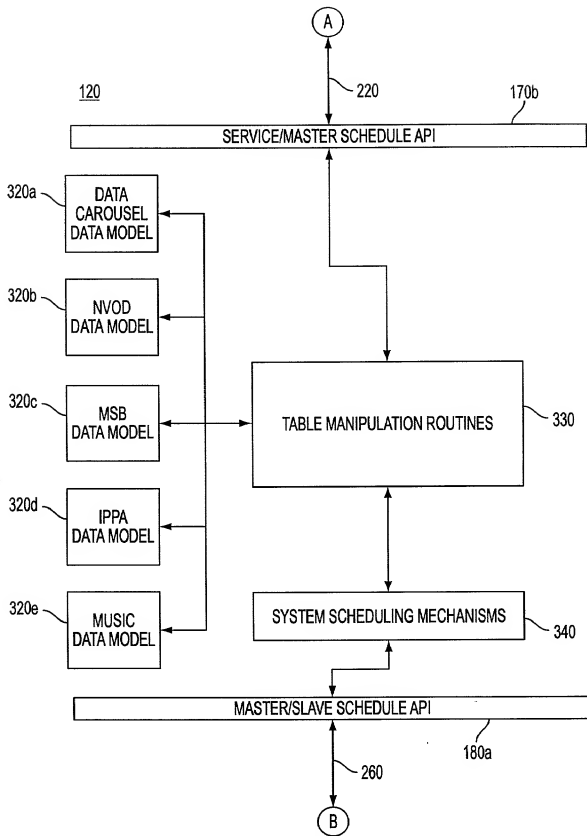


FIG. 3B

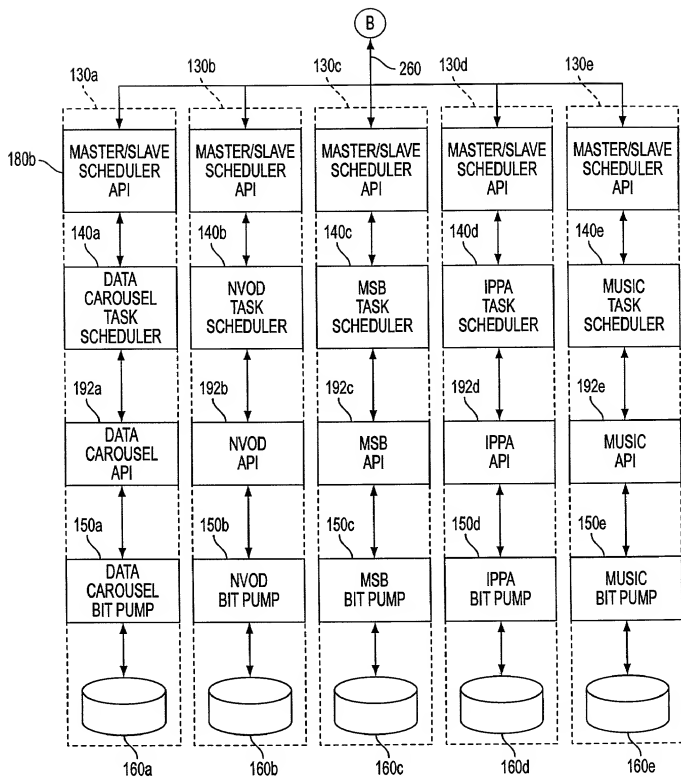


FIG. 3C

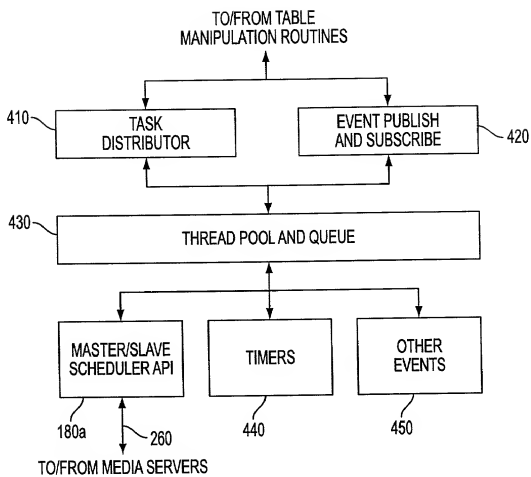


FIG. 4A

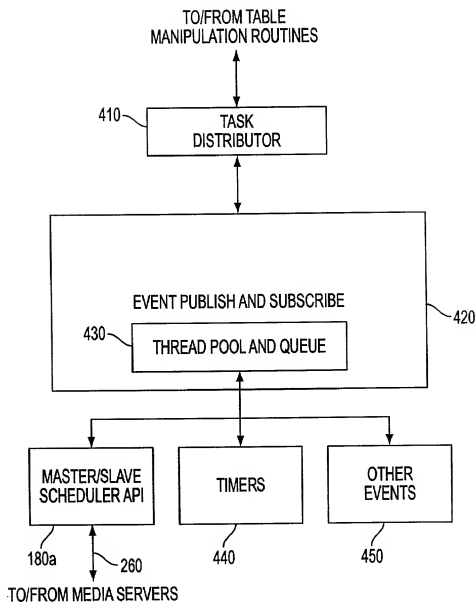


FIG. 4B

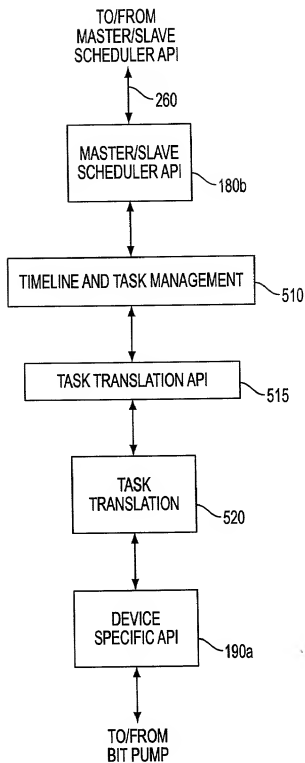


FIG. 5

600

610a 610b 610c 610d

FILE EDIT VIEW SELECT

PROGRAM SERVICES MASTER SCHEDULER

DATE TIME SERVICE EVENT

12:00 PM 1:00 PM 2:00 PM 3:00 PM

640a HOME

640b MSB-101

640c MSB-102

640d INET-101

640e INET-102

640f KABC

640g KCBS

640h KTVU

640i KNBC

640j COURT

640k CNN

640l TBS

620

630a 630b 630c 630d 630e

640

FIG. 6

700

SELECT A DATE AND TIME

YEAR..... 1997

MONTH..... AUGUST

DAY..... 26TH

HOUR..... 12:00 PM

CANCEL DONE

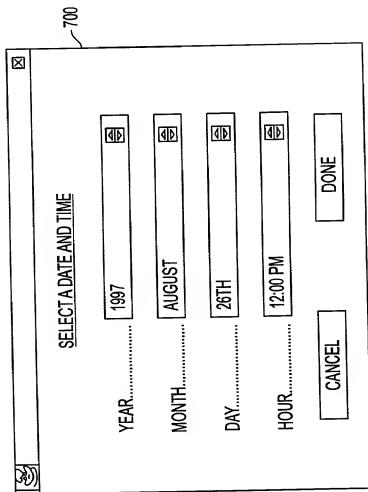


FIG. 7

FIG. 8

FIG. 8

[illegible]

FIG. 9

000001 00452200

FILE EDIT VIEW SELECT		PROGRAM SERVICES MASTER SCHEDULER			
DATE AUGUST 26TH, 1997		TIME	12:00 TO 01:00	SERVICE KABC	EVENT ESPY.MPG
		12:00 PM	1:00 PM	2:00 PM	3:00 PM
HOME			MSB config1.dat		
MSB-101					
MSB-102		MSB config2.dat			
INET-101				INET clipper	
INET-102					
KABC	622d	TV ESPY			
KCBS					
KTVU					
KNBC					
COURT					
CNN					
TBS					
1001					

FIG. 10

14/39

TV | ESPY

FILE | EDIT | VIEW | SELECT

PROGRAM SERVICES MASTER SCHEDULER ☒

DATE AUGUST 26TH, 1997 TIME 12:00 TO 01:00 SERVICE KABC EVENT sworks.2mt

	12:00 PM	1:00 PM	2:00 PM	3:00 PM
HOME				
MSB-101		MSB config1.dat		
MSB-102	MSB config2.dat			
INET-101			INET clipalseer	
INET-102				
KABC	TV ESPY			
KCBS	GDC sworks.2mt			
KTVU				
KNBC				
COURT				
CNN				
TBS				

1001

622d

1101

FIG. 11

FILE EDIT VIEW SELECT		PROGRAM SERVICES MASTER SCHEDULER		<input checked="" type="checkbox"/>
DATE AUGUST 26TH, 1997		TIME 12:00 TO 01:00	SERVICE KABC	EVENT sworks.2mt
		12:00 PM	1:00 PM	2:00 PM
HOME				3:00 PM
MSB-101			MSB config1.dat	
MSB-102		MSB config2.dat		
INET-101			INET c:\jppalser	
INET-102				
KABC	TV ESPY	ADD	ALT+A	
KCBS	GDC sworks.2mt	INSERT	ALT+I	
KTVU		OPEN	ALT+O	
KNBC		DETAILS	ALT+E	
COURT		REMOVE	ALT+D	
CNN				
TBS				

1101 1201

FIG. 12

09 11 2008 11:00

FIG. 13

<div> <div>FILE</div> <div>EDIT</div> <div>VIEW</div> <div>SELECT</div> </div> <div> <div>DATE</div> <div>AUGUST 26TH, 1997</div> <div>TIME</div> <div>01:30 TO 02:00</div> <div>SERVICE</div> <div>MSB-101</div> <div>EVENT</div> <div>config1.dat</div> </div> <div> <div>PROGRAM SERVICES MASTER SCHEDULER</div> <div> <div>622a</div> <div>1401</div> </div> <div> <div>12:00 PM</div> <div>1:00 PM</div> <div>2:00 PM</div> <div>3:00 PM</div> </div> </div>			
HOME			
MSB-101		MSB config1.dat	
MSB-102	MSB config2.dat		
INET-101			INET clippalser
INET-102			
KABC	TV ESPY		
KCBS			
KTVU			
KNBC			
COURT			
CNN			
TBS			

FIG. 14

1501

610c

PROGRAM SERVICES MASTER SCHEDULER			
FILE	EDIT	VIEW	SELECT
DATE	AUGUST	EPG DATABASE...	TO 02:00 SERVICE MSB-101 EVENT config1.dat
HOME		GDC DATABASE...	M 2:00 PM 3:00 PM
MSB-101		MSB DATABASE...	
MSB-102		INET DATABASE...	config1.dat
INET-101		DVB SERVICES...	
INET-102		DISPLAY TIMES...	INET clippaiser
		HIDE TIMES...	
KABC		REFRESH	CTRL+R
KCBS			
KTVU			
KNBC			
COURT			
CNN			
TBS			

FIG. 15

622a

PROGRAM SERVICES MASTER SCHEDULER <input checked="" type="checkbox"/>			
DATE AUGUST 26TH, 1997		TIME 01:00 TO 02:00	SERVICE MSB-101 EVENT config1.dat
	12:00 PM	1:00 PM	2:00 PM
HOME			
MSB-101			
MSB-102	MSB [config2.dat]	▶ 01:00-02:30 MSB [config1.dat]	
INET-101			INET clippaser
INET-102			
KABC	TV / ESPY		
KCBS			
KTVU			
KNBC			
COURT			
CNN			
TBS			

FIG. 16

622c 1601a

1601

FILE EDIT VIEW SELECT		PROGRAM SERVICES MASTER SCHEDULER		DATE AUGUST		EPG DATABASE...		TO 02:00 SERVICE MSB-101 EVENT config1.dat	
HOME		GDC DATABASE...		M		2:00 PM		3:00 PM	
MSB-101		MSB DATABASE...							
MSB-102		INET DATABASE...				02:30 MSB config1.dat			
INET-101		DVB SERVICES...							
INET-102		DISPLAY TIMES...				INET clipper			
KABC		HIDE TIMES...							
KCBS		REFRESH		CTRL+R					
KTVU									
KNBC									
COURT									
CNN									
TBS									

FIG. 17

FIG. 19

SELECT	INSERT	UPDATE	DELETE	CLEAR	GDC DATABASE			<input checked="" type="checkbox"/>
AssetURL		ProgramID	SpecID	Bandwidth	QueueSlot			<input checked="" type="checkbox"/>
/americast/code/input/sworks.m2t		201	1	5300000	P			<input checked="" type="checkbox"/>
/americast/code/input/ESP/MPG		401	1	5300000	P			<input checked="" type="checkbox"/>
ESP/MPG		402	1	10	D			<input checked="" type="checkbox"/>
sworks.2mt		403	1	10	D			<input checked="" type="checkbox"/>
ESP/MPG		404	1	10	D			<input checked="" type="checkbox"/>
sworks.2mt		405	1	10	D			<input checked="" type="checkbox"/>
ESP/MPG		406	1	10	D			<input checked="" type="checkbox"/>
sworks.2mt		407	1	10	D			<input checked="" type="checkbox"/>
ESP/MPG		1004	100	10	P			<input checked="" type="checkbox"/>
ESP/MPG		1008	100	10	P			<input checked="" type="checkbox"/>
ESP/MPG		1032	100	10	P			<input checked="" type="checkbox"/>
dummy.xyp		1034	100	10	P			<input checked="" type="checkbox"/>
sworks.2mt		1036	100	10	P			<input checked="" type="checkbox"/>
ESP/MPG		1056	100	10	P			<input checked="" type="checkbox"/>

FIG. 20

MSB DATABASE ☒

PROGRAMS EVENTS TYPES SELECT CLEAR INSERT UPDATE DELETE

ProgramID... 1010 START DATE... 1997-08-26 START TIME... 12:00:00

CombinedID... 102 END DATE... 1997-08-26 END TIME... 01:00:00

ProgramID	CombID	StartDate	StartTime	StopDate	StopTime
100	102	1997-09-05	23:59:00	1997-09-05	23:59:30
200	103	1997-09-05	23:59:00	1997-09-05	23:59:30
1010	102	1997-08-26	12:00:00	1997-08-26	01:00:00
1018	102	1997-08-26	12:00:00	1997-08-26	01:00:00
1020	102	1997-08-26	12:00:00	1997-08-26	01:00:00
1022	102	1997-08-26	12:00:00	1997-08-26	01:00:00
1024	102	1997-08-26	12:00:00	1997-08-26	01:00:00
1026	102	1997-08-26	12:00:00	1997-08-26	01:00:00
1028	102	1997-08-26	12:00:00	1997-08-26	01:00:00
1038	102	1997-08-26	12:00:00	1997-08-26	01:00:00

1911 2110 2111 2112 2113 2114

FIG. 21

OBJECT 20452600

☒ INET DATABASE

[SELECT] [CLEAR] [INSERT] [UPDATE] [DELETE]

DESCRIP FILE.....

ProgramID.....

ServiceID.....

START DATE...

START TIME...

SERVICE NAME...

END DATE.....

END TIME.....

SvcDescFile	ProgramID	ServiceID	ServiceName
c:\lppa\services\stock.sdf	1000	10	StockService1
c:\lppa\services\weather.sdf	1001	20	WeatherService1
c:\lppa\services\traffic.sdf	1002	30	TRAFFIC
c:\lppa\services\stock.sdf	1006	0	SERVICE DESCRIPTION FILE
c:\lppa\services\traffic.sdf	1012	0	WEATHER IPPA
c:\lppa\services\weather.sdf	1014	0	WEATHER IPPA
c:\lppa\services\stock.sdf	1016	0	WEATHER IPPA
c:\lppa\services\stock.sdf	1030	0	STOCK IPPA

2210
1911
1810
2211

FIG. 22

2310

FIG. 23A

FIG. 23B

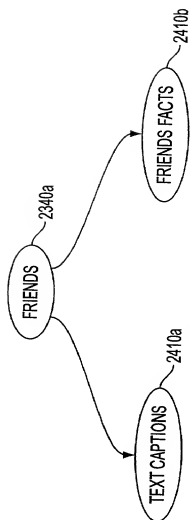


FIG. 24C

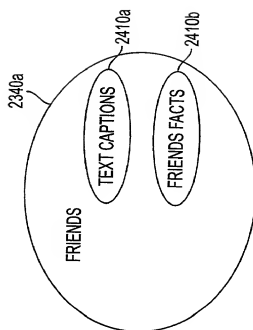


FIG. 24D

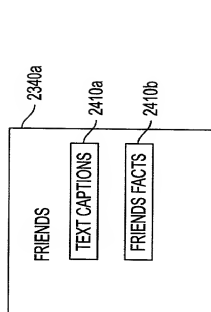


FIG. 24E

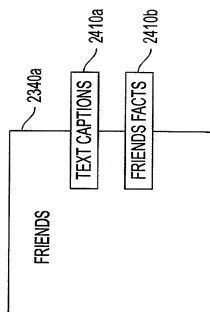


FIG. 24F

eventID	programID	CHANNEL	EVENT NAME	START TIME	END TIME	SERVICE TYPE
1	1	52	FRIENDS	7:30pm	8:00pm	TV
2	1	52	FRIENDS TEXT_CAPTIONS	7:30pm	8:00pm	DC
3	1	52	FRIENDS FRIENDS_FACTS	7:30pm	8:00pm	IPPA
4	5	75	STAR TREK IV	7:00pm	8:30pm	NVOD
5	7	90	BOXING	7:00pm	8:30pm	TV

FIG. 25

2610	2620a	2620b	2620c	2620d	2620e
2610a	eventID	FILENAME	SIZE	PID	TRANSPONDER
	2	TEXT_CAPTIONS.txt	50K	90037	3

2600

FIG. 26

2710	2720a	2720b	2720c	2720
2710a	eventID	URL	PID	
	3	FRIENDS_FACTS.sdf	80716	

2700

FIG. 27

2610	2820a	2820b	2820c	2820d	2820e	2820
eventID	FILENAME	SIZE	PID	TRANSPONDER		
4	STAR TREK IV	500 MEG	90020	10		

FIG. 28

2910	2920a	2920b	2920
eventID	1	CHANGE TYPE	CHANGE TIME

FIG. 29

3010	3020a	3020b	3020c	3020
eventID	1	CHANGE TYPE	REGISTERED PROCEDURE	
3010a	1	CHANGE TIME	Tmr_ChangeEventTime (2, <NEW TIME>)	
3010b	1	CHANGE TIME	Tmr_ChangeEventTime (3, <NEW TIME>)	

FIG. 30

2510	2520a	2520b	2520c	2520d	2520e	2520f	2520g
	eventID	programID	CHANNEL	EVENT NAME	START TIME	END TIME	SERVICE TYPE
2510a	1	1	52	FRIENDS	9:00pm	9:30pm	TV
2510b	2	1	52	TEXT_CAPTIONS	9:00pm	9:30pm	DC
2510c	3	1	52	FRIENDS_FACTS	9:00pm	9:30pm	IPPA
2510d	4	5	75	STAR TREK IV	7:00pm	8:30pm	NVOD
2510e	5	7	90	BOXING	7:00pm	8:30pm	TV

2500

FIG. 31

3200

3210a	3210b	3210c	3210d	3210e	3210f	3210g
DATE	START TIME	END TIME	TASKID	COMMAND	CMD DATA	ASSET LIST
1997-08-01	8:59:57pm	9:30pm	1:2	PLAY		TEXT_CAPTIONS.txt

FIG. 32A

3201

3210a	3210b	3210h	3210c	3210d	3210e	3210f	3210g
DATE	START TIME	EXEC TIME	END TIME	TASKID	COMMAND	CMD DATA	ASSET LIST
1997-08-01	9:00pm	8:59:57pm	9:30pm	1:2	PLAY		TEXT_CAPTIONS.txt

FIG. 32B

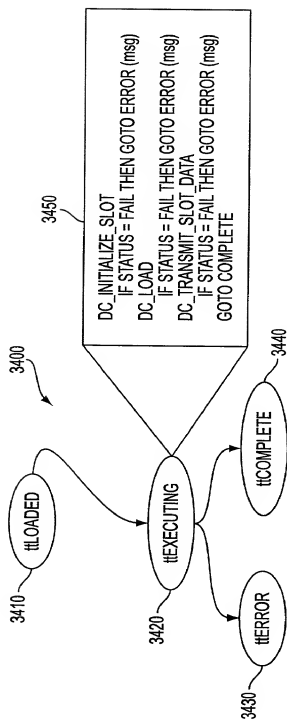


FIG. 34